

Title (en)

LOAD SUSPENSION AND WEIGHING SYSTEM FOR A DIALYSIS MACHINE RESERVOIR

Title (de)

LASTSUSPENSIONS- UND WIEGESYSTEM FÜR EIN DIALYSEMASCHINENRESERVOIR

Title (fr)

SYSTÈME DE SUSPENSION DE CHARGE ET DE PESÉE POUR RÉSERVOIR DE MACHINE DE DIALYSE

Publication

EP 2934661 B1 20200212 (EN)

Application

EP 13868466 A 20131105

Priority

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- US 2013068506 W 20131105

Abstract (en)

[origin: US2014174835A1] A load suspension and weighing system for a removable reservoir unit of a portable dialysis machine includes a centrally located flexure assembly. The flexure assembly includes magnets and a number of flexure rings which allow for movement of the magnets about a fixed circuit board. Sensors in the circuit board sense changes in the magnetic field as the magnets move in relation to the circuit board. The magnetic field changes produce a voltage output which is used by a processor to generate weight calculations. The top of the flexure assembly is attached to the interior of the dialysis machine. The entirety of the reservoir unit is suspended by a first internal frame that is attached to the bottom of the flexure assembly. Having a single flexure assembly positioned above the reservoir unit provides more accurate weight measurements while also preventing damage to the assembly from water spillage.

IPC 8 full level

G01G 3/15 (2006.01); **A61M 1/36** (2006.01); **A61M 37/00** (2006.01); **B01D 61/30** (2006.01); **G01G 17/04** (2006.01); **G01G 19/14** (2006.01); **G01L 1/04** (2006.01)

CPC (source: EP US)

A61M 1/3621 (2013.01 - US); **B01D 61/30** (2013.01 - US); **G01G 3/15** (2013.01 - EP US); **G01G 17/04** (2013.01 - EP US); **G01G 19/14** (2013.01 - EP US); **A61M 2205/3393** (2013.01 - US); **G01L 1/04** (2013.01 - US); **G01L 1/044** (2013.01 - US); **G01L 1/046** (2013.01 - US)

Designated contracting state (EPC)

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